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PATENT & TRADEMARK OFFICE

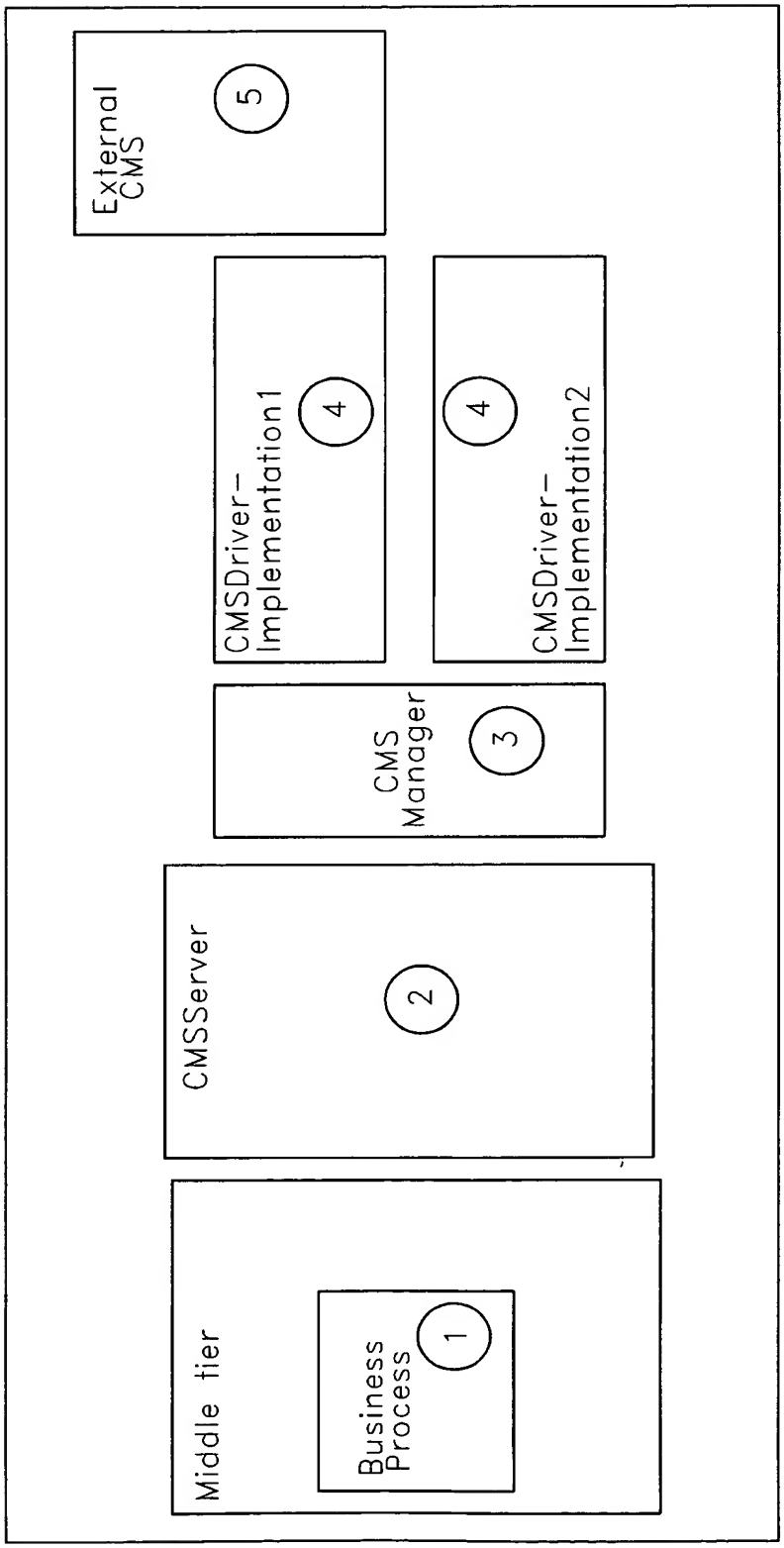


FIG. 1

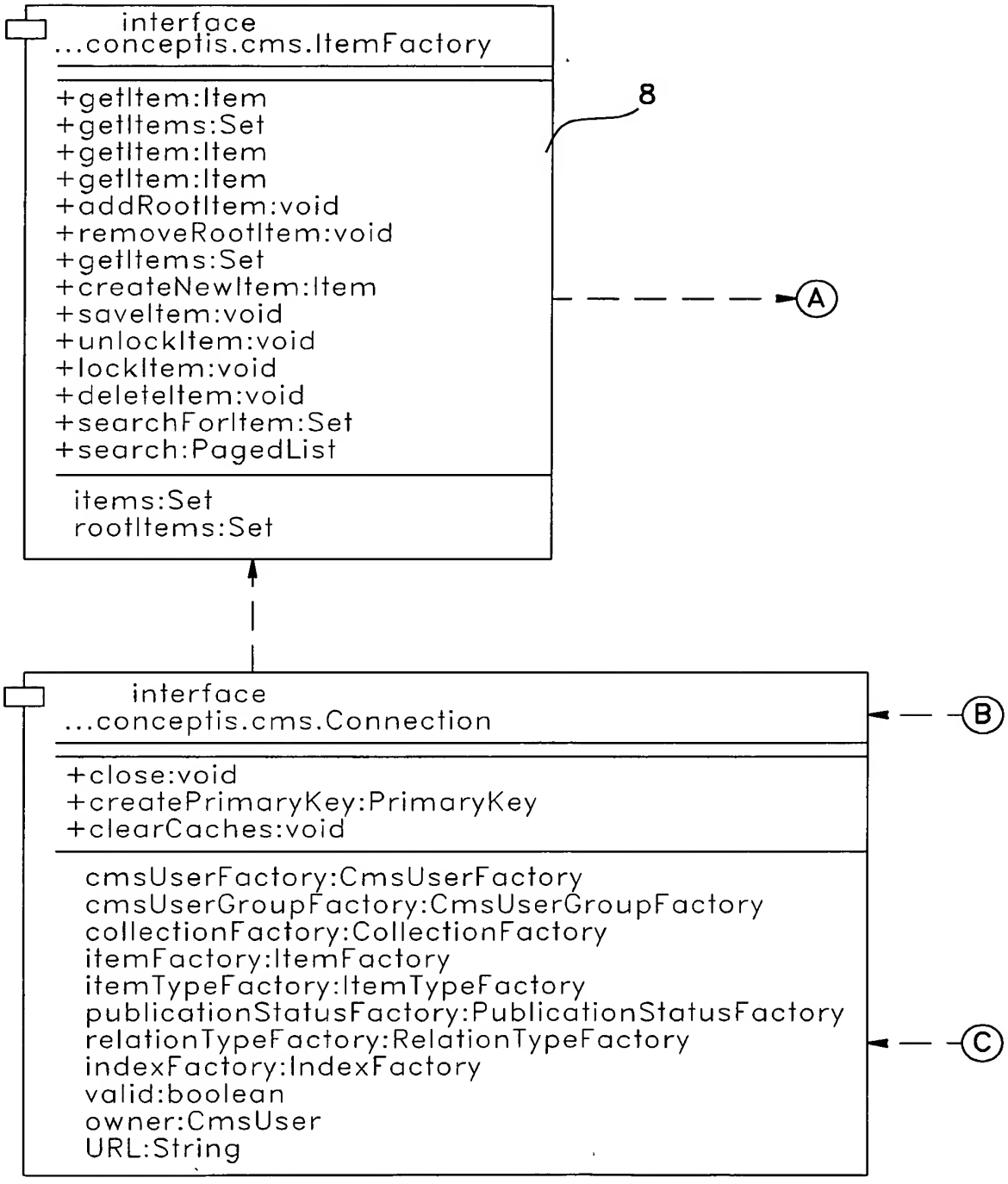

interface
...conceptis.cms.ItemFactory
+getItem:Item
+getItems:Set
+getItem:Item
+getItem:Item
+addRootItem:void
+removeRootItem:void
+getItems:Set
+createNewItem:Item
+saveItem:void
+unlockItem:void
+lockItem:void
+deleteItem:void
+searchForItem:Set
+search:PagedList
items:Set
rootItems:Set
8
A
interface
...conceptis.cms.Connection
B
+close:void
+createPrimaryKey:PrimaryKey
+clearCaches:void
cmsUserFactory:CmsUserFactory
cmsUserGroupFactory:CmsUserGroupFactory
collectionFactory:CollectionFactory
itemFactory:ItemFactory
itemTypeFactory:ItemTypeFactory
publicationStatusFactory:PublicationStatusFactory
relationTypeFactory:RelationTypeFactory
indexFactory:IndexFactory
valid:boolean
owner:CmsUser
URL:String
C

FIG. 2

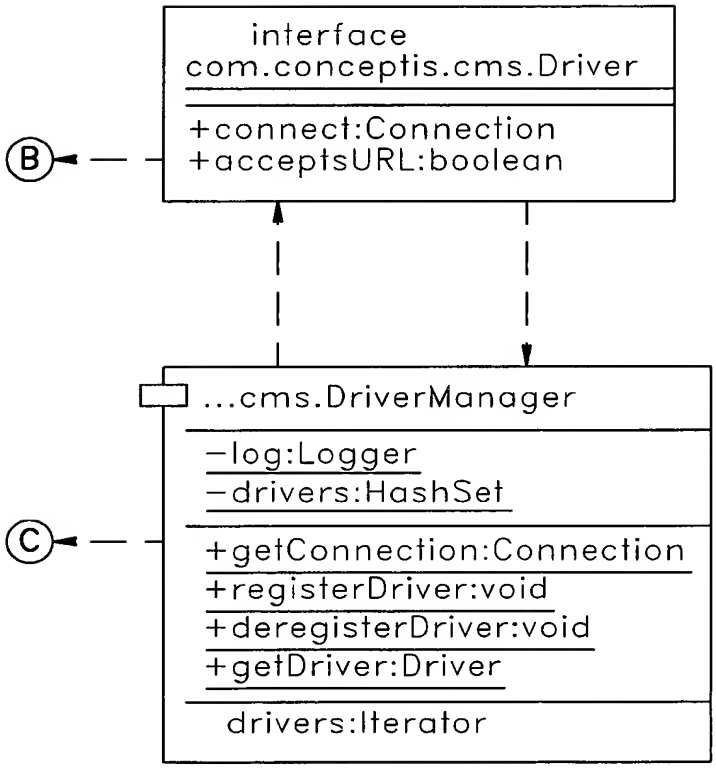


FIG. 2A CONTINUATION

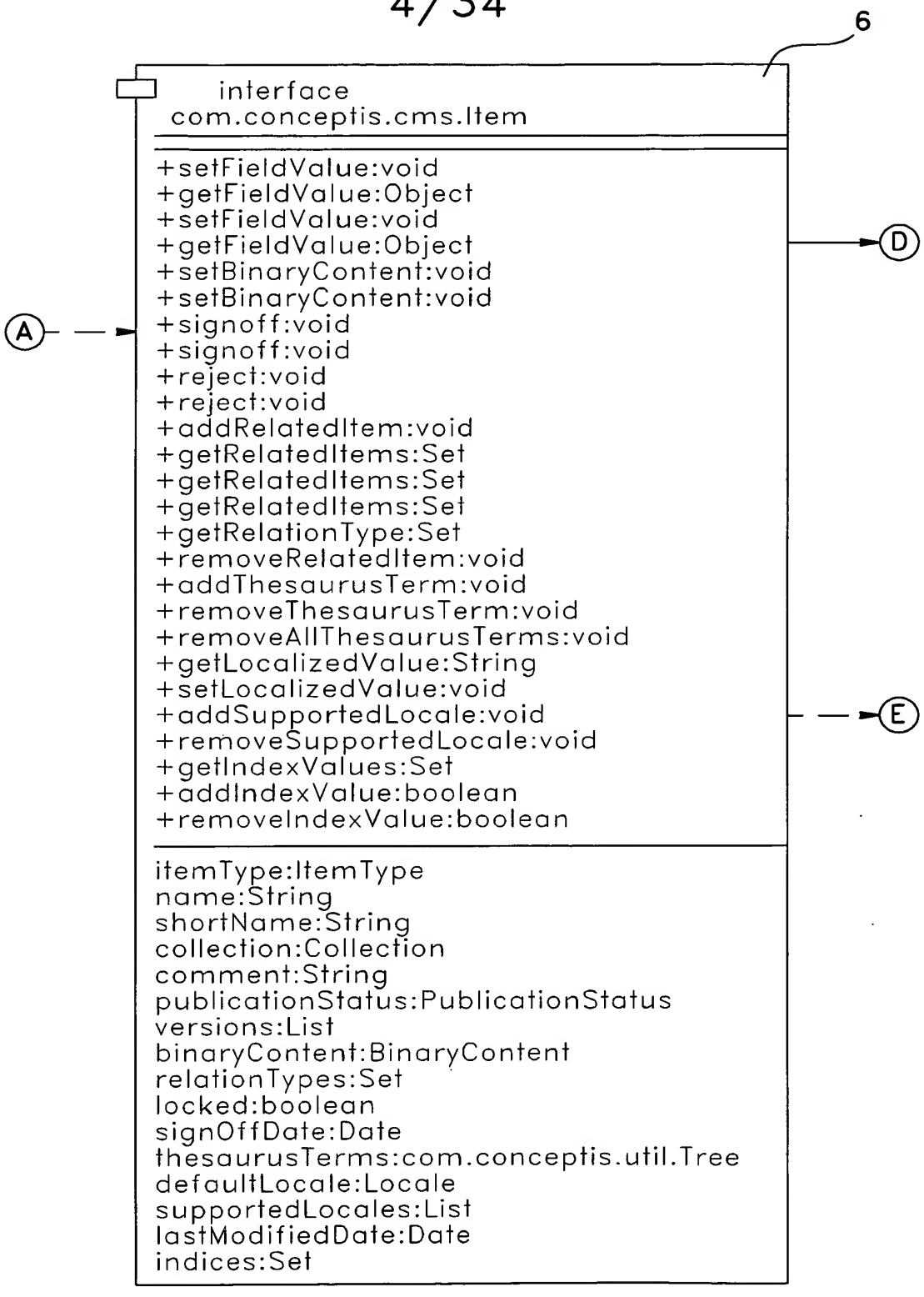


FIG. 2B CONTINUATION

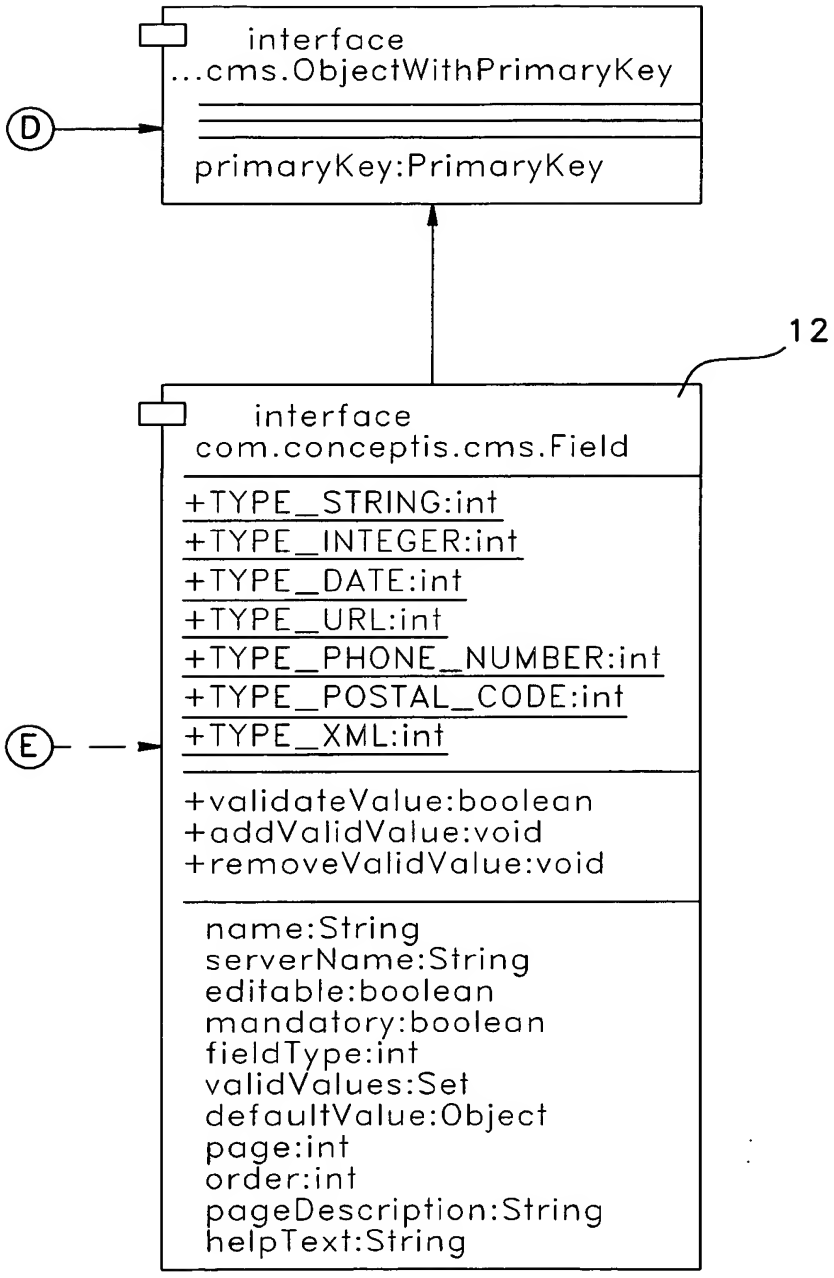


FIG. 2C CONTINUATION

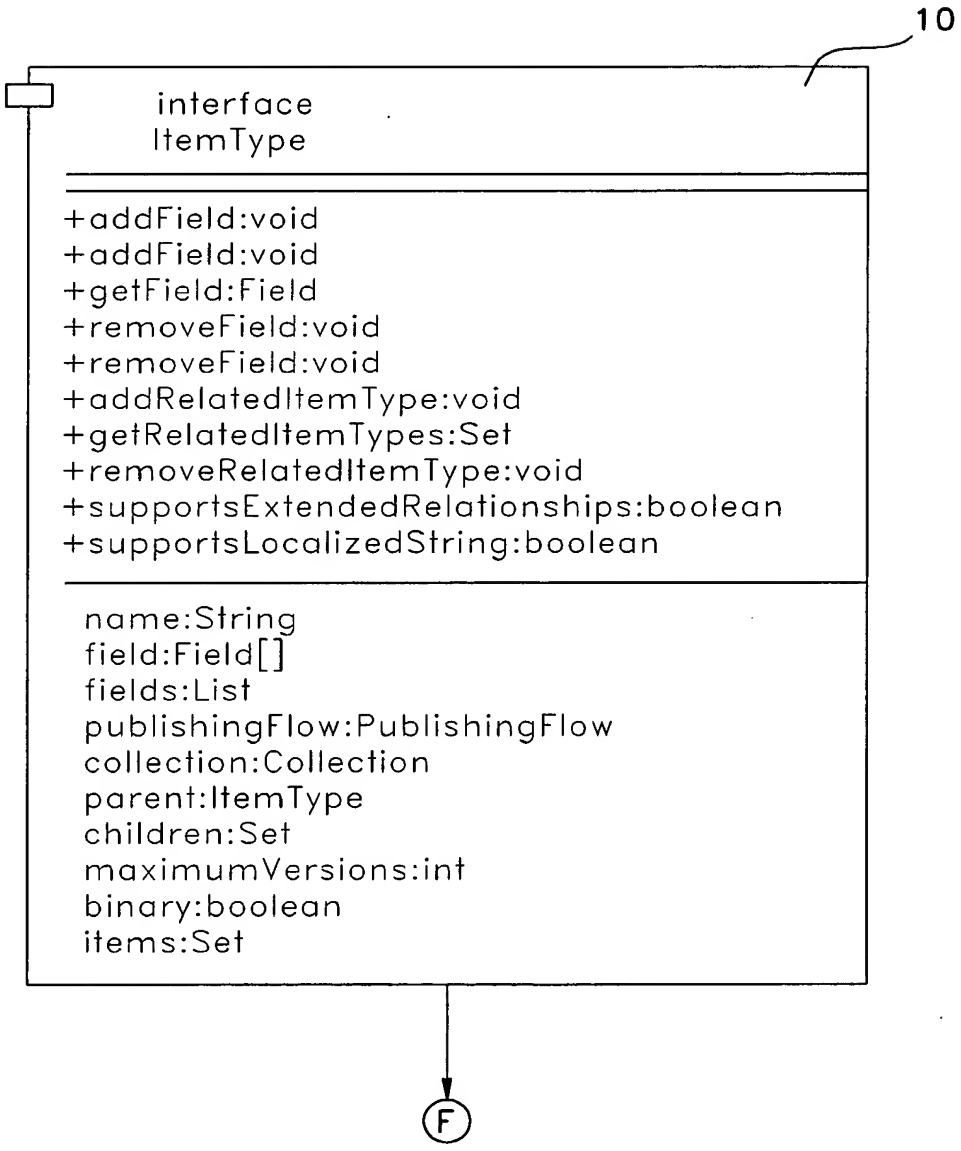

10
interface
ItemType
+addField:void
+addField:void
+getField:Field
+removeField:void
+removeField:void
+addRelatedItemType:void
+getRelatedItemTypes:Set
+removeRelatedItemType:void
+supportsExtendedRelationships:boolean
+supportsLocalizedString:boolean
name:String
field:Field[]
fields:List
publishingFlow:PublishingFlow
collection:Collection
parent:ItemType
children:Set
maximumVersions:int
binary:boolean
items:Set
F

FIG. 3

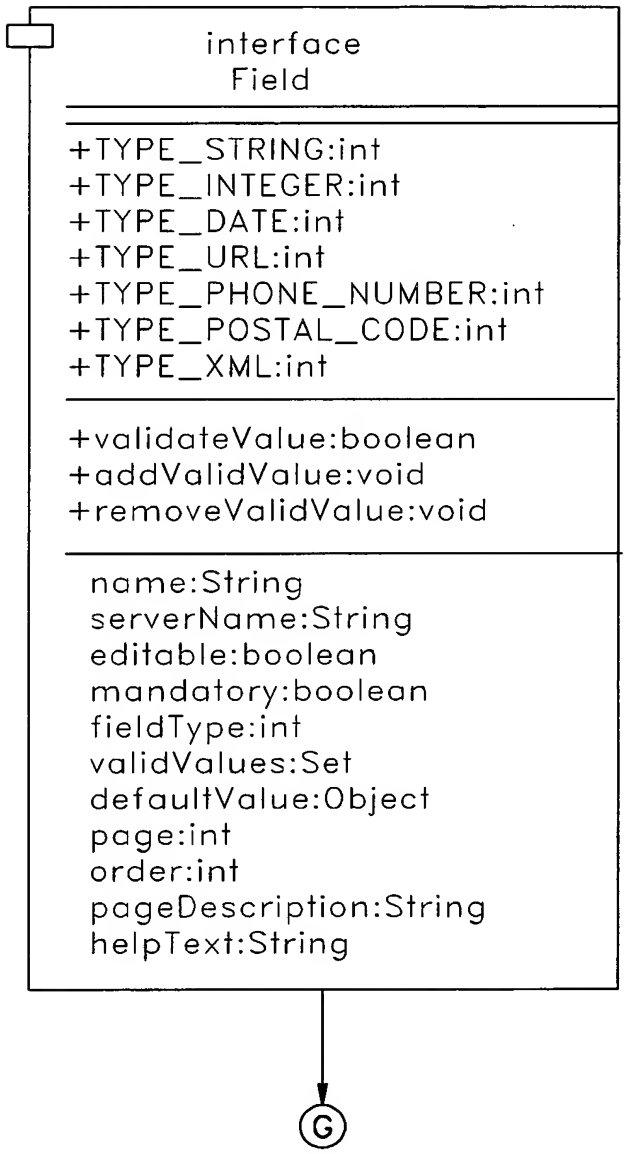


FIG. 3A CONTINUATION

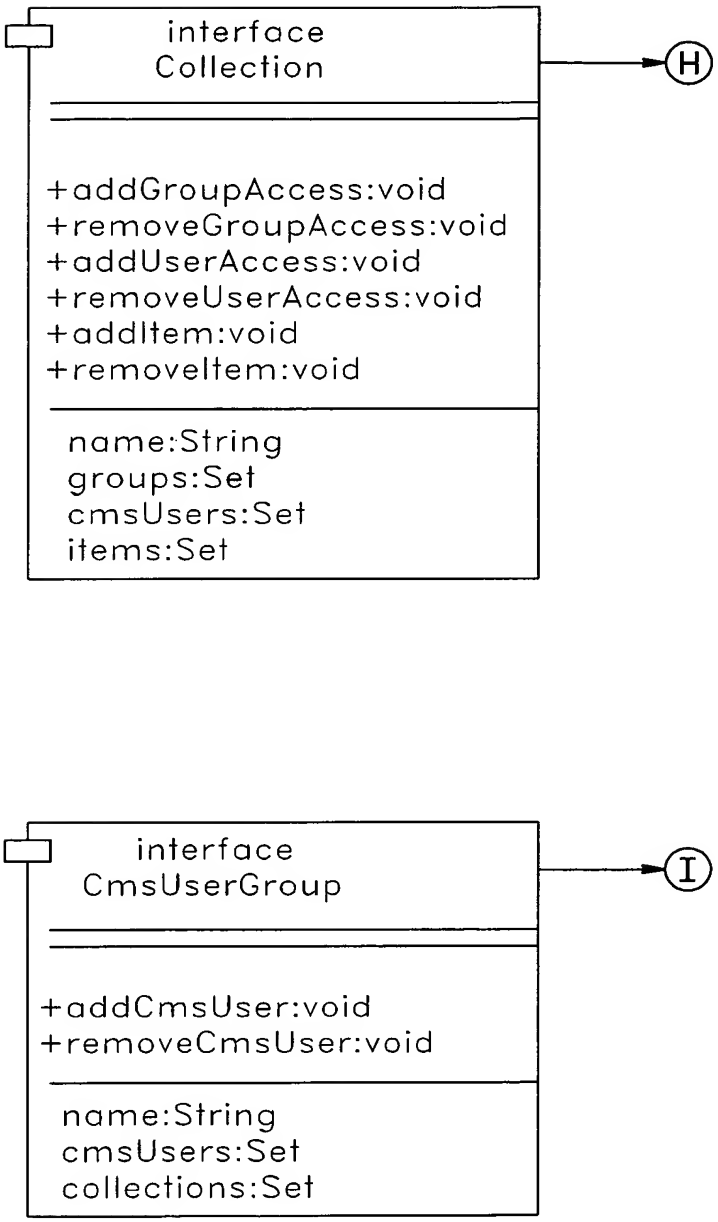


FIG. 3B CONTINUATION

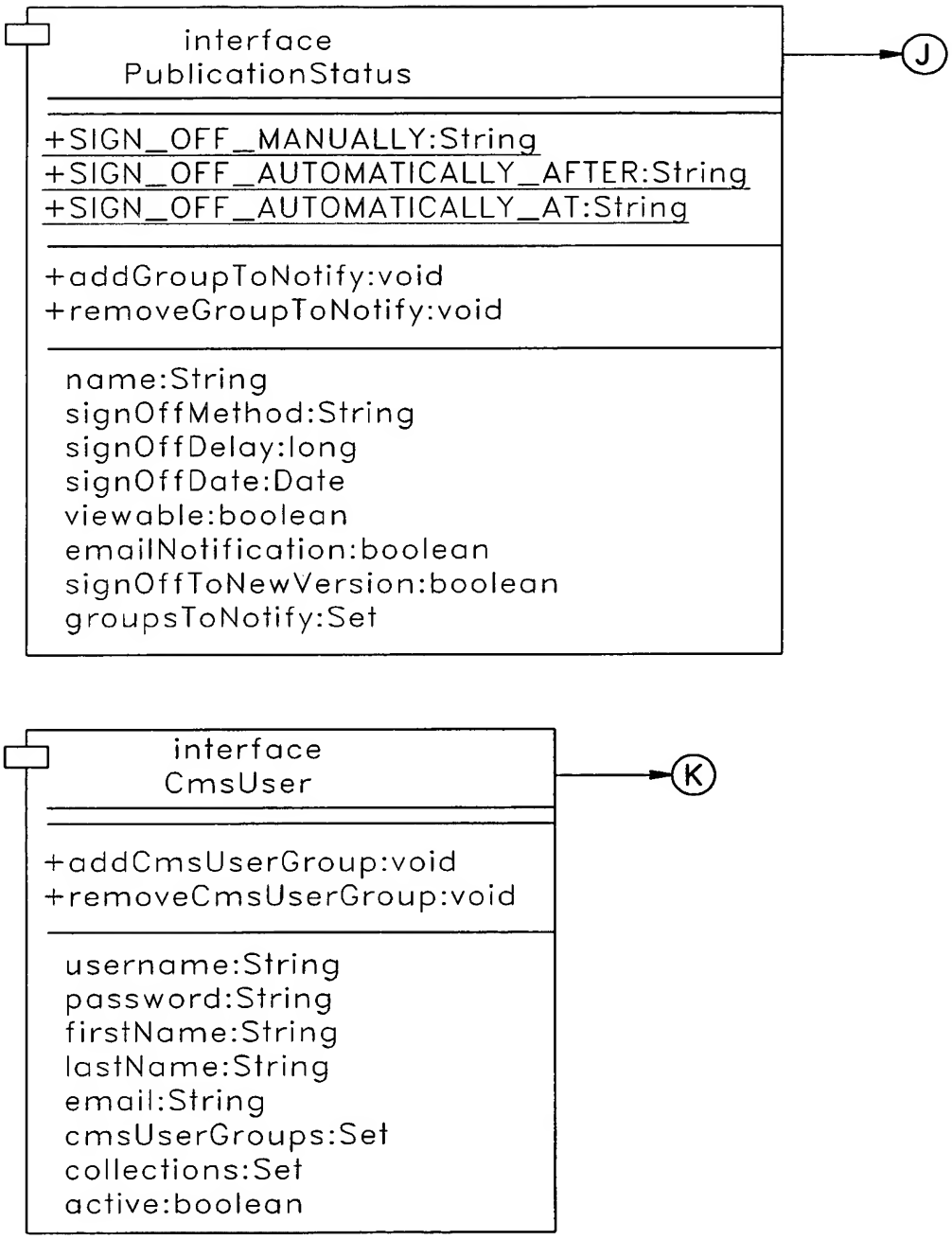
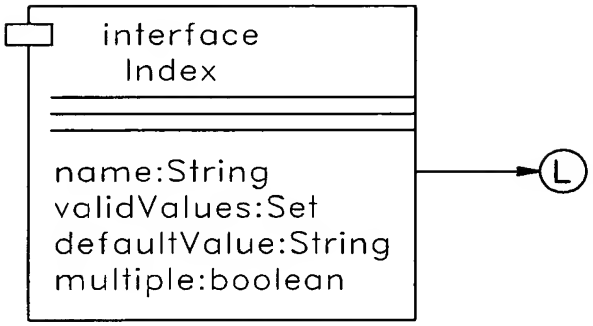


FIG. 3C CONTINUATION



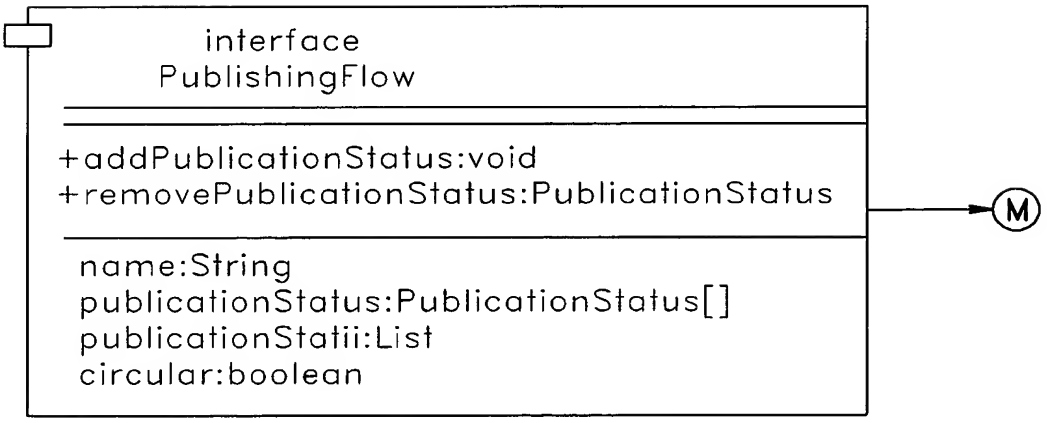


FIG. 3D CONTINUATION

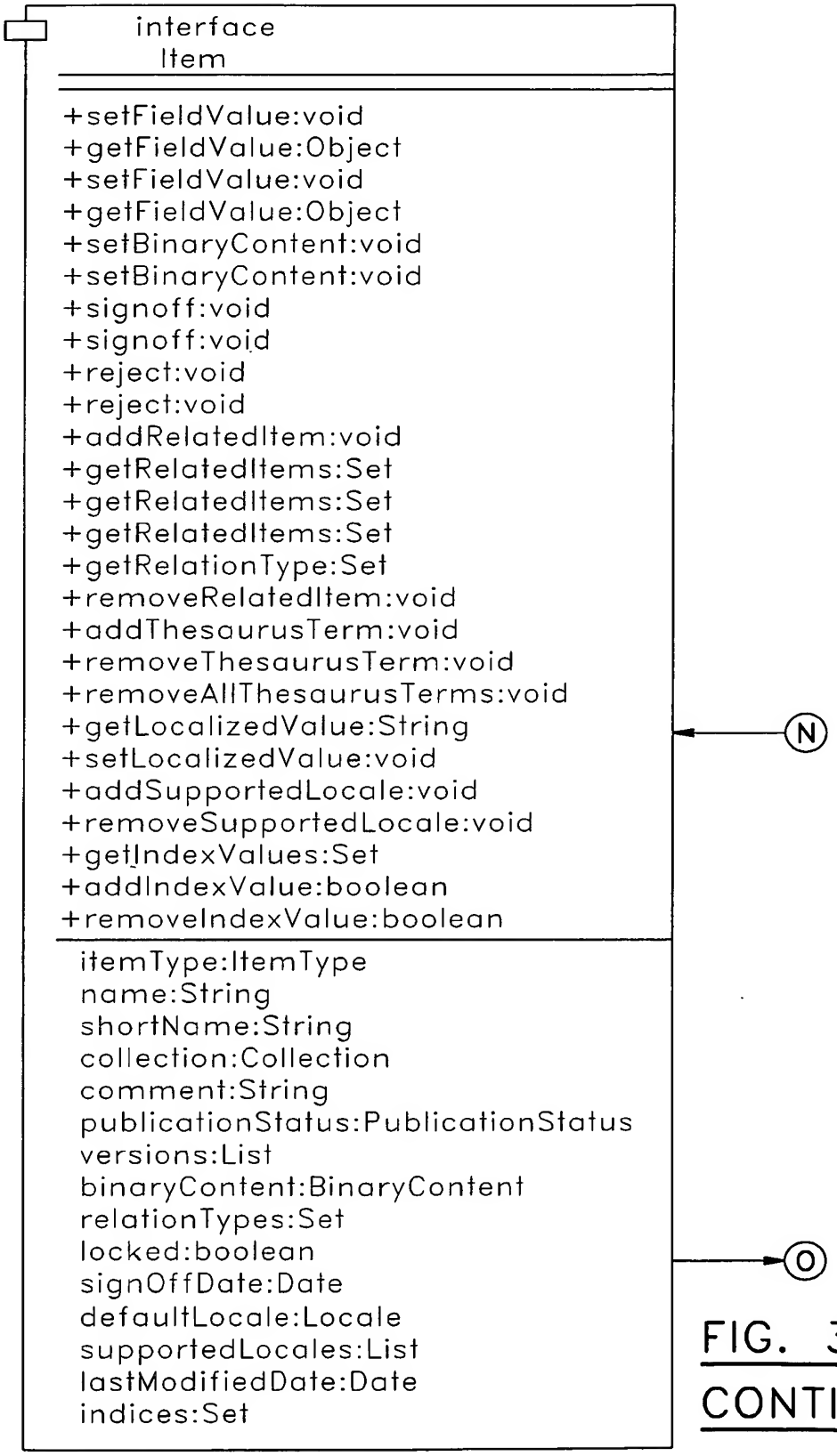


FIG. 3E
CONTINUATION

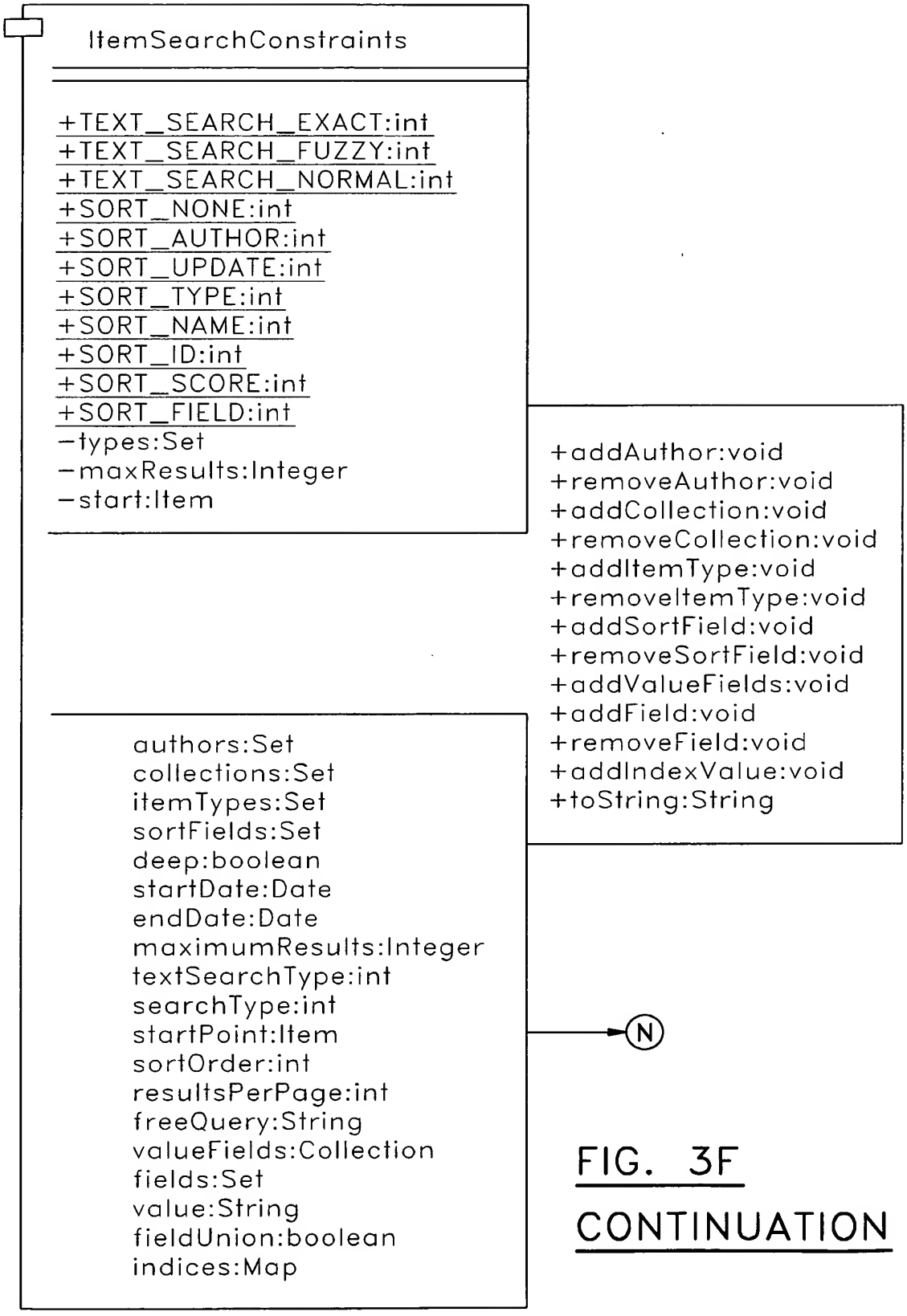


FIG. 3F
CONTINUATION

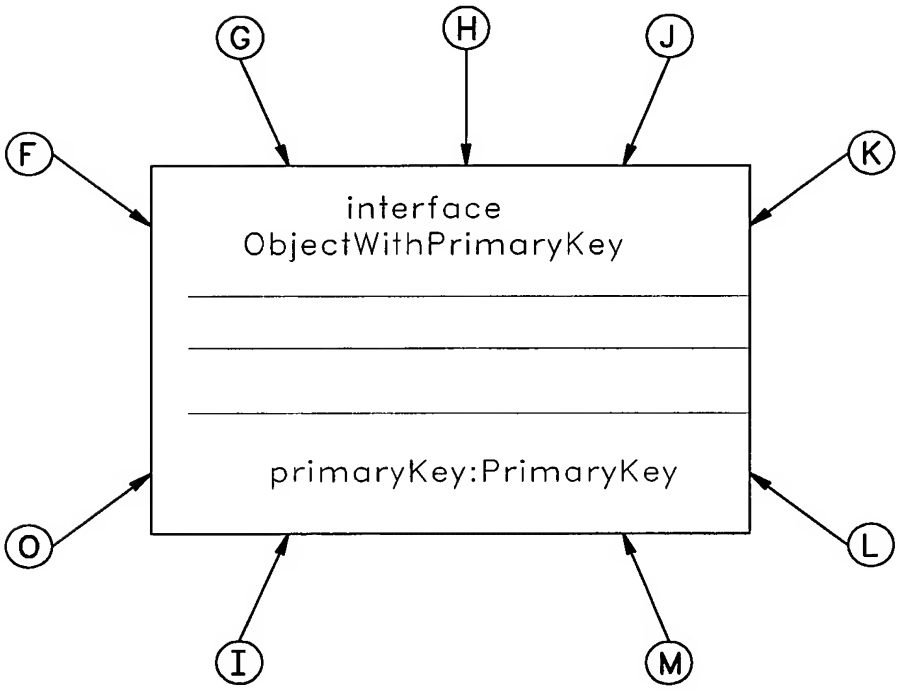


FIG. 3G CONTINUATION

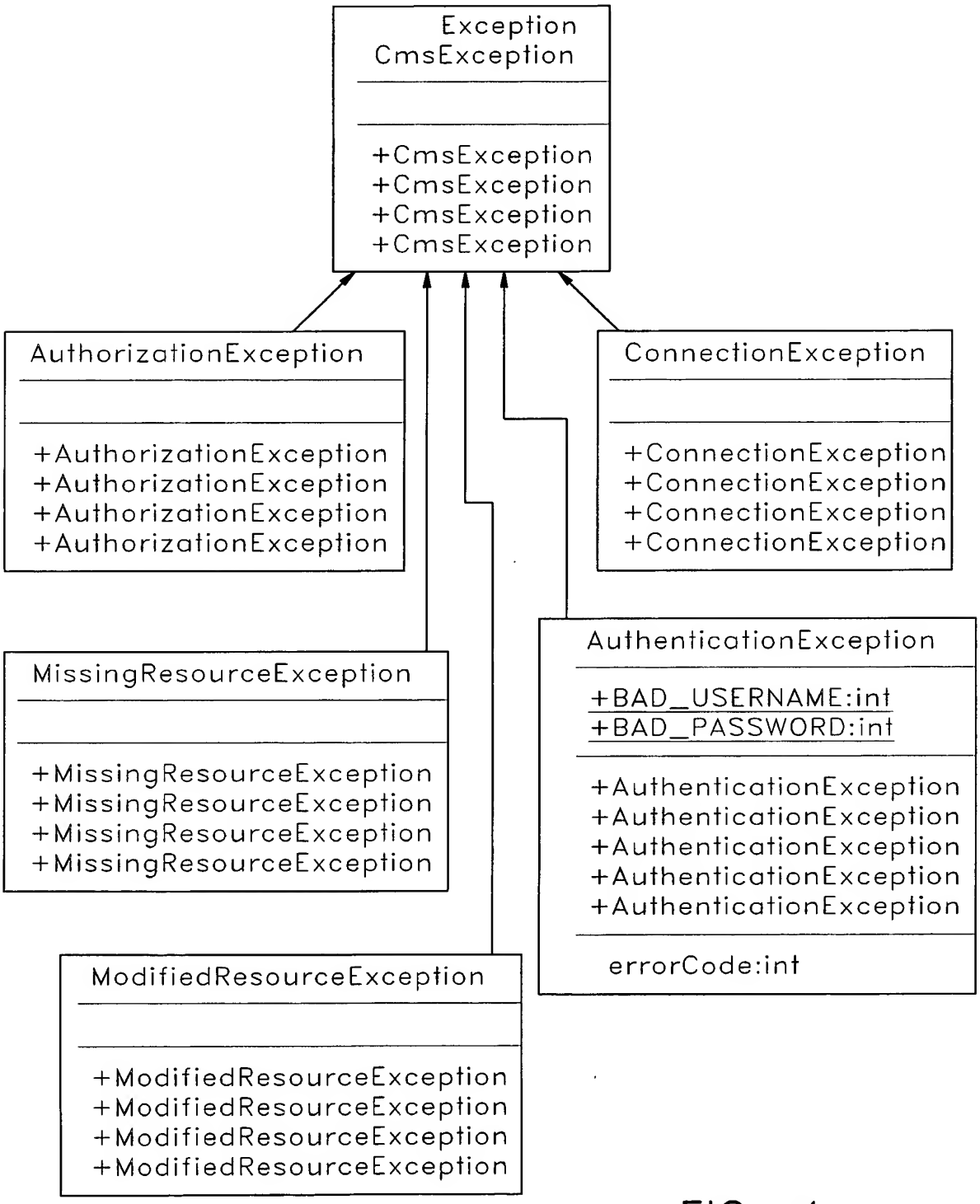

Exception
CmsException
+CmsException
+CmsException
+CmsException
+CmsException
AuthorizationException
+AuthorizationException
+AuthorizationException
+AuthorizationException
+AuthorizationException
ConnectionException
+ConnectionException
+ConnectionException
+ConnectionException
+ConnectionException
MissingResourceException
+MissingResourceException
+MissingResourceException
+MissingResourceException
+MissingResourceException
AuthenticationException
+BAD_USERNAME:int
+BAD_PASSWORD:int
+AuthenticationException
+AuthenticationException
+AuthenticationException
+AuthenticationException
+AuthenticationException
errorCode:int
ModifiedResourceException
+ModifiedResourceException
+ModifiedResourceException
+ModifiedResourceException
+ModifiedResourceException

FIG. 4

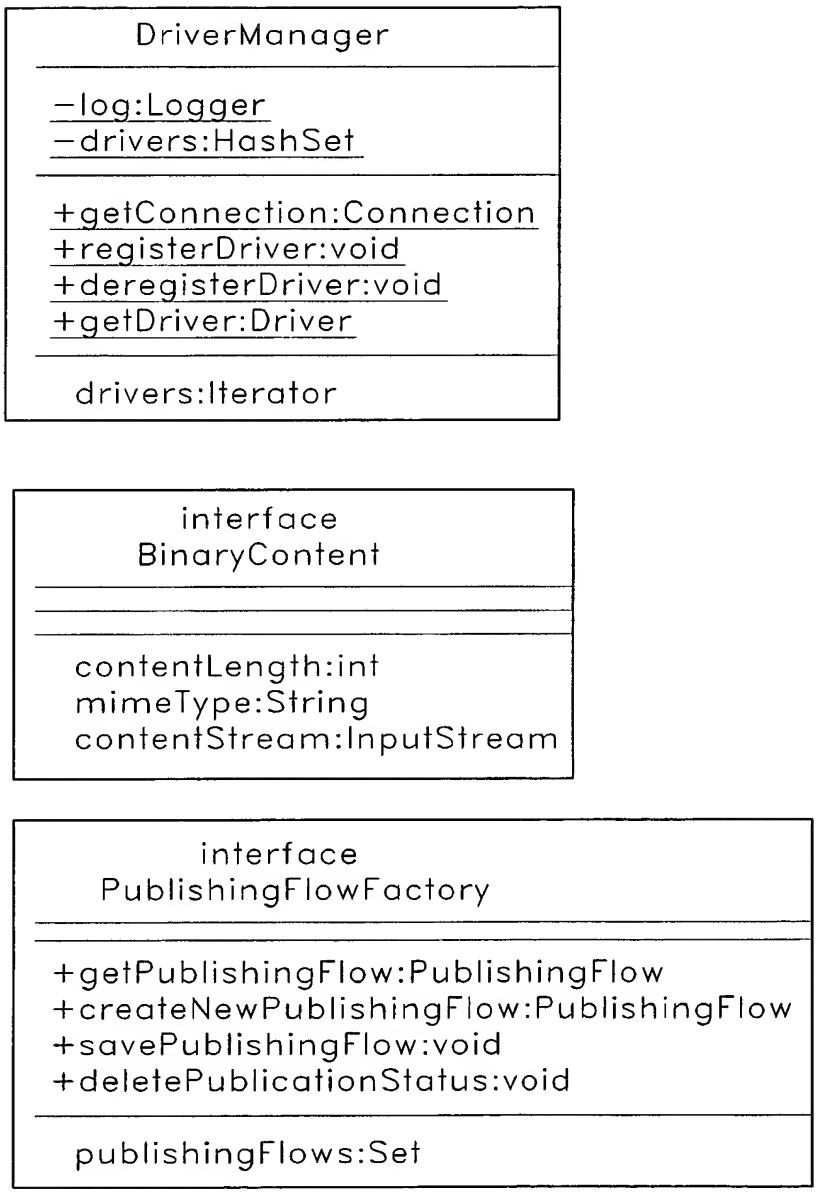
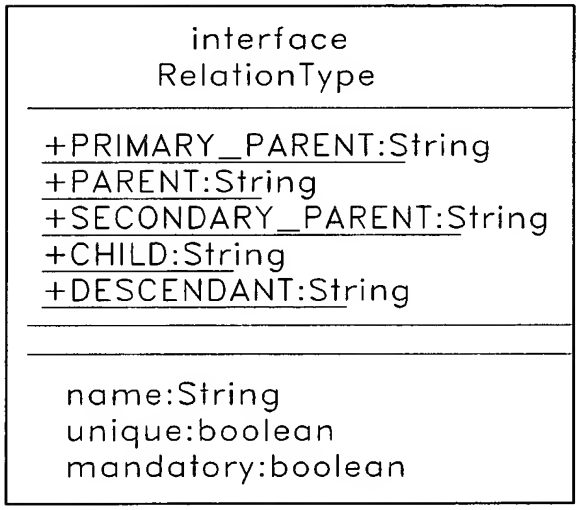


FIG. 4A CONTINUATION



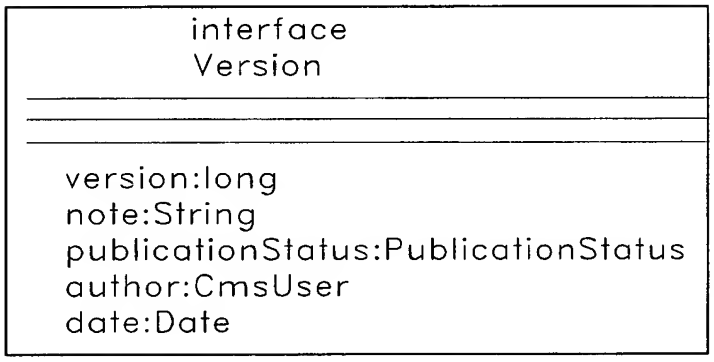


FIG. 4B CONTINUATION

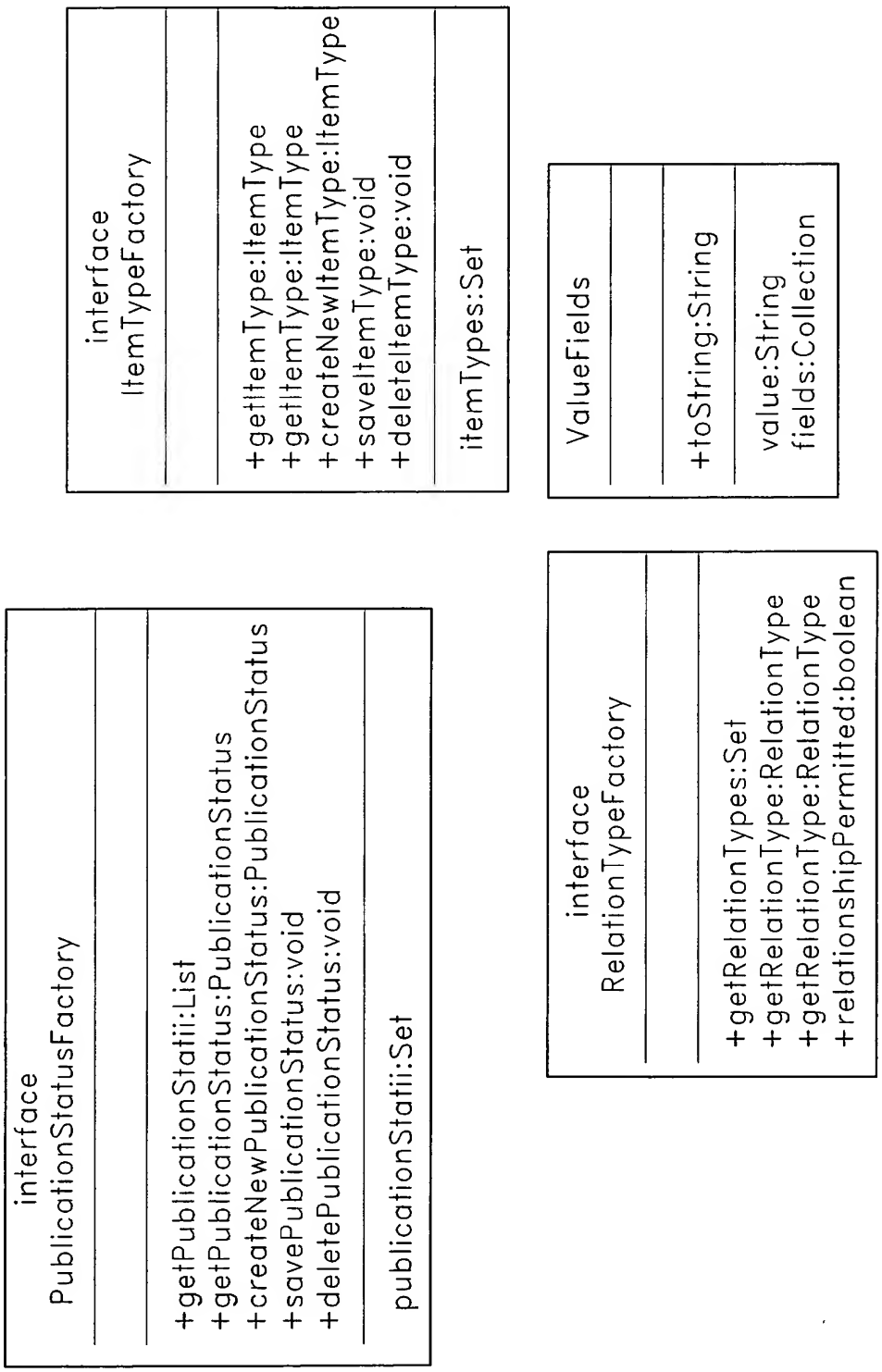


FIG. 4C CONTINUATION

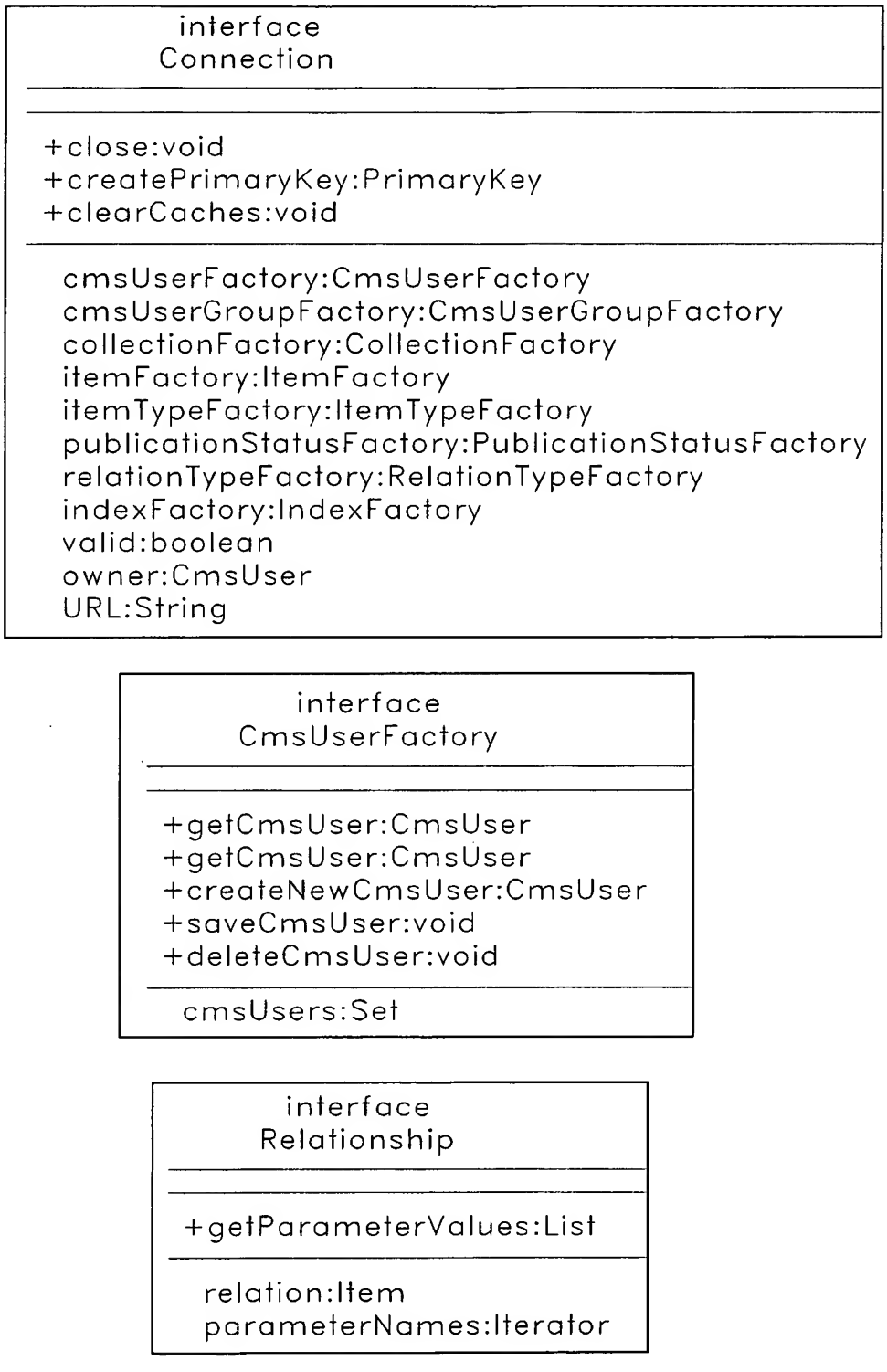


FIG. 4D CONTINUATION

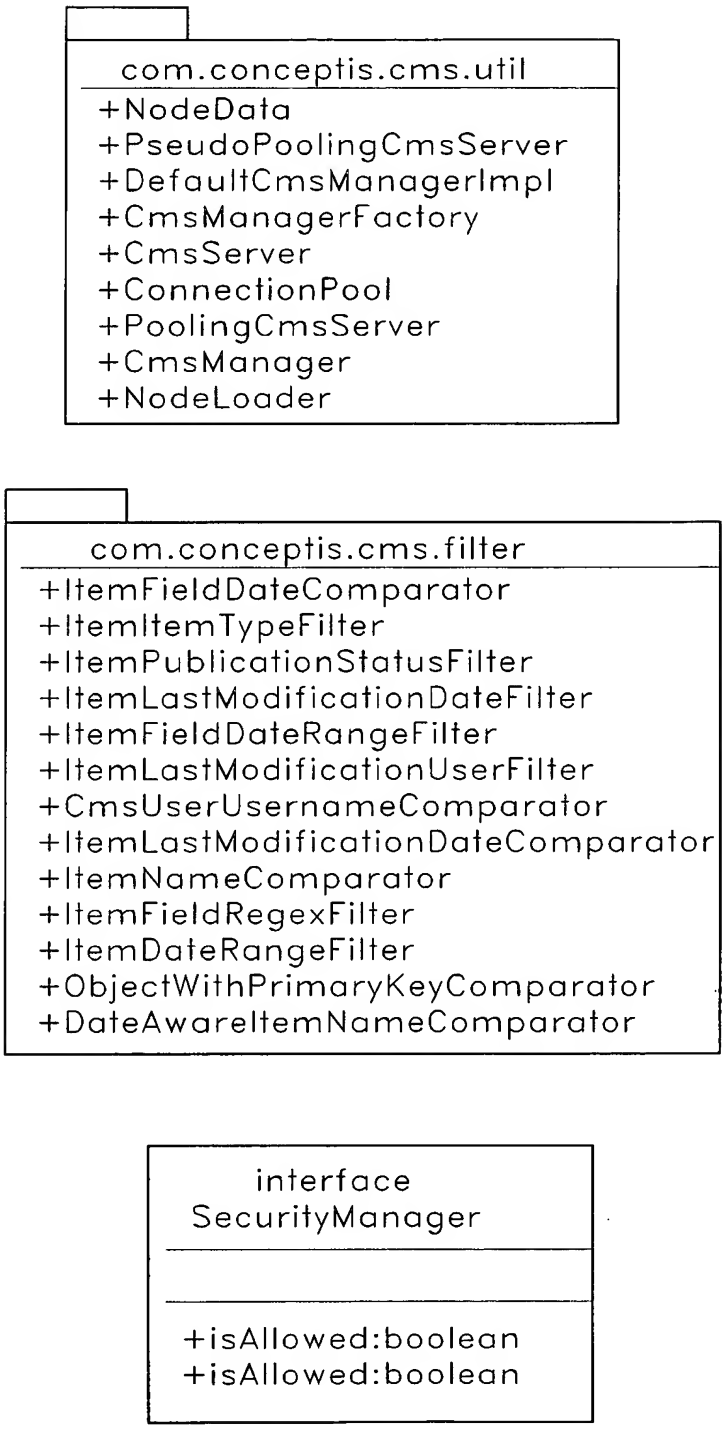


FIG. 4E CONTINUATION

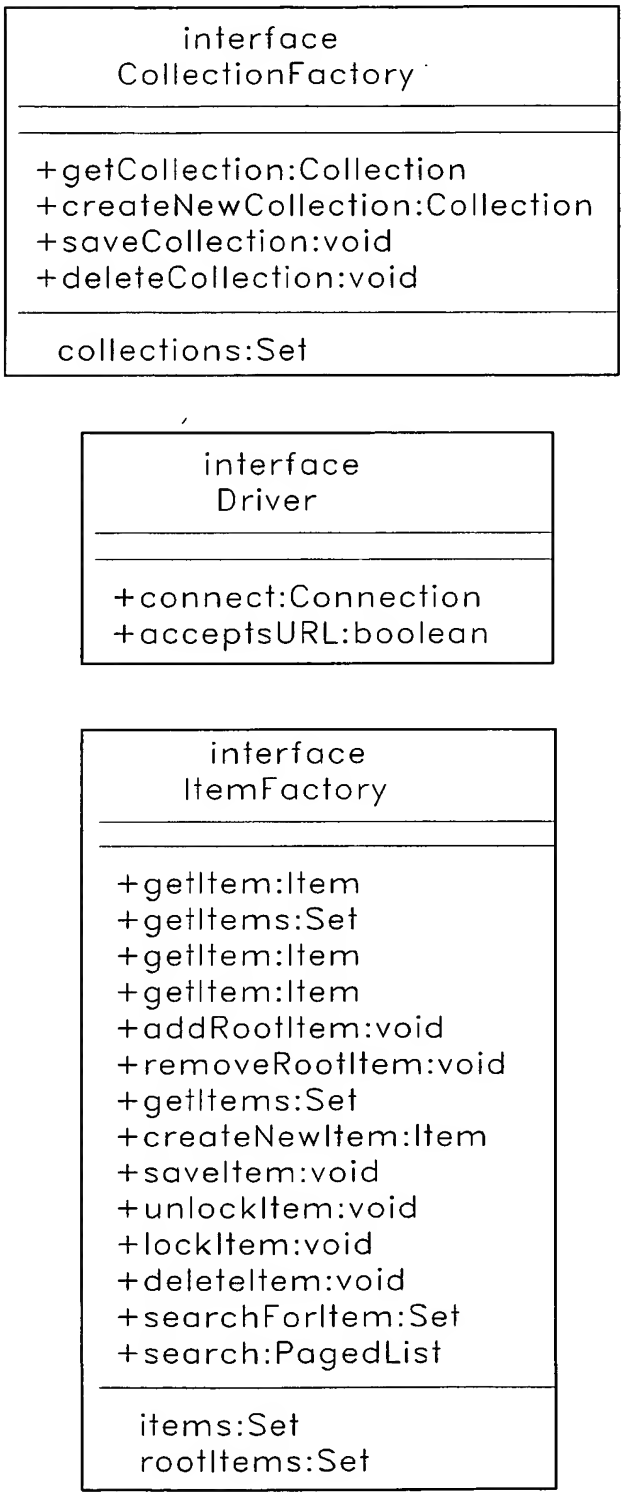


FIG. 4F CONTINUATION

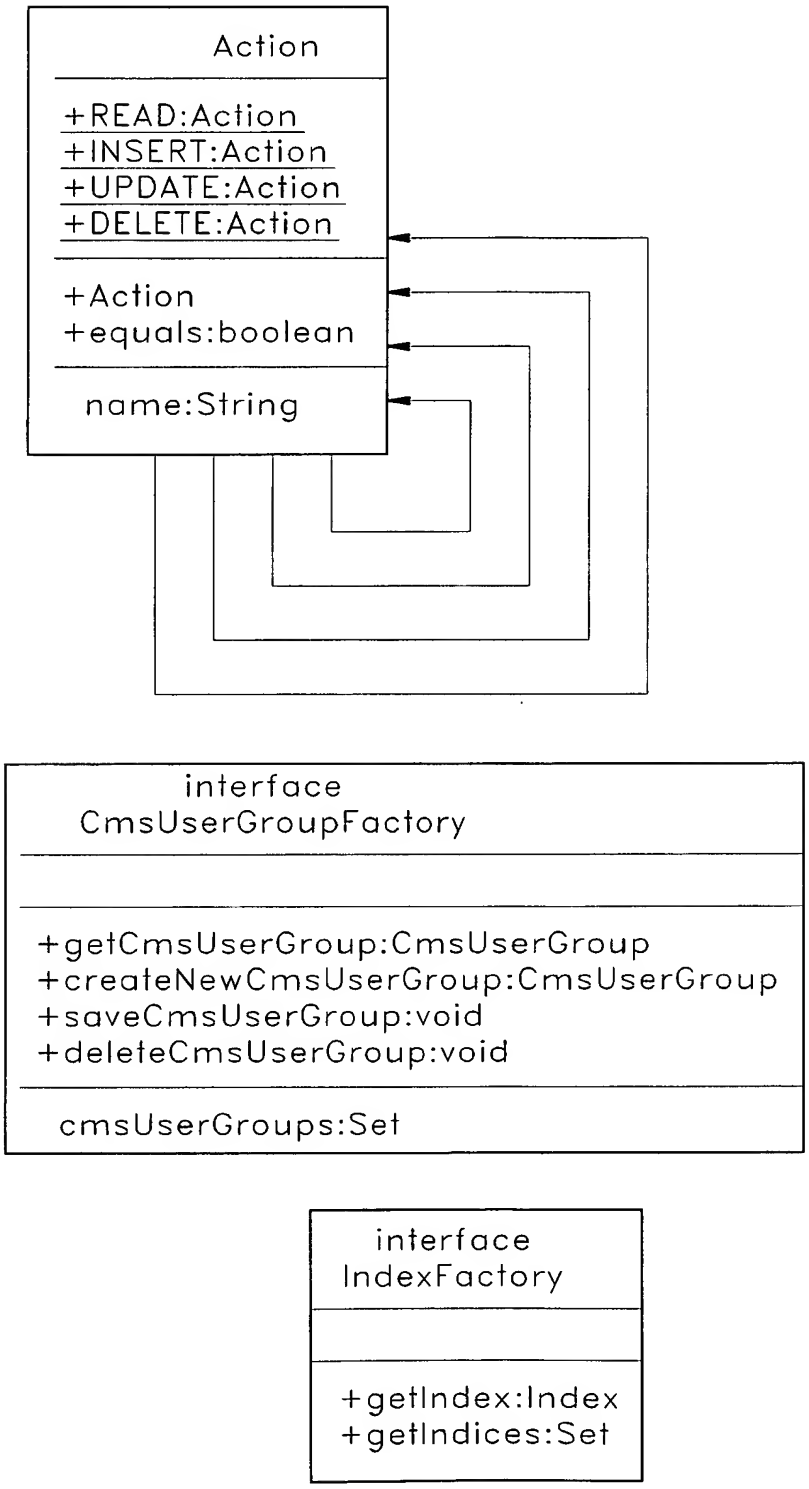


FIG. 4G CONTINUATION

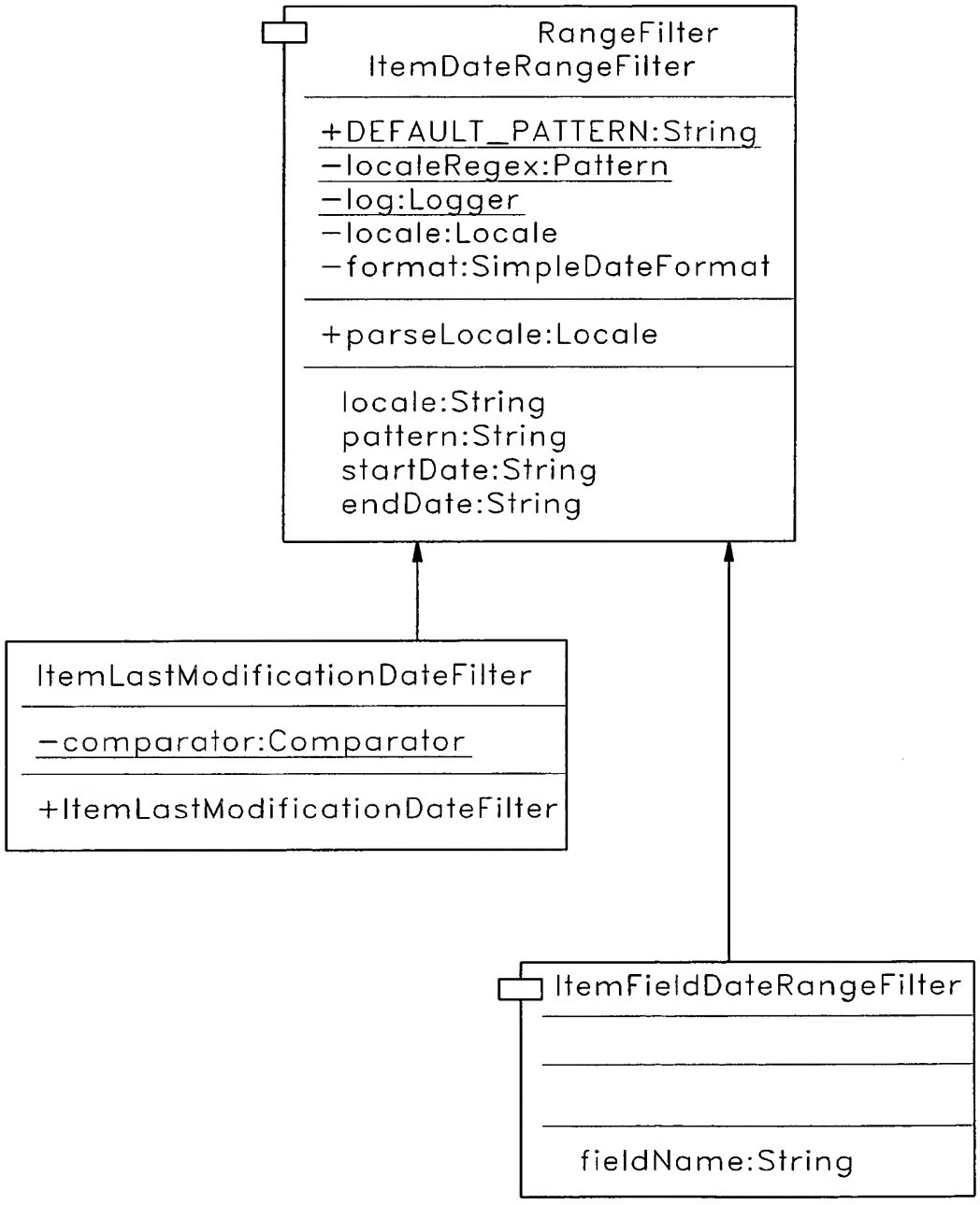

RangeFilter
ItemDateRangeFilter
+DEFAULT_PATTERN:String
-localeRegex:Pattern
-log:Logger
-locale:Locale
-format:SimpleDateFormat
+parseLocale:Locale
locale:String
pattern:String
startDate:String
endDate:String
ItemLastModificationDateFilter
-comparator:Comparator
+ItemLastModificationDateFilter
ItemFieldDateRangeFilter
fieldName:String

FIG. 5

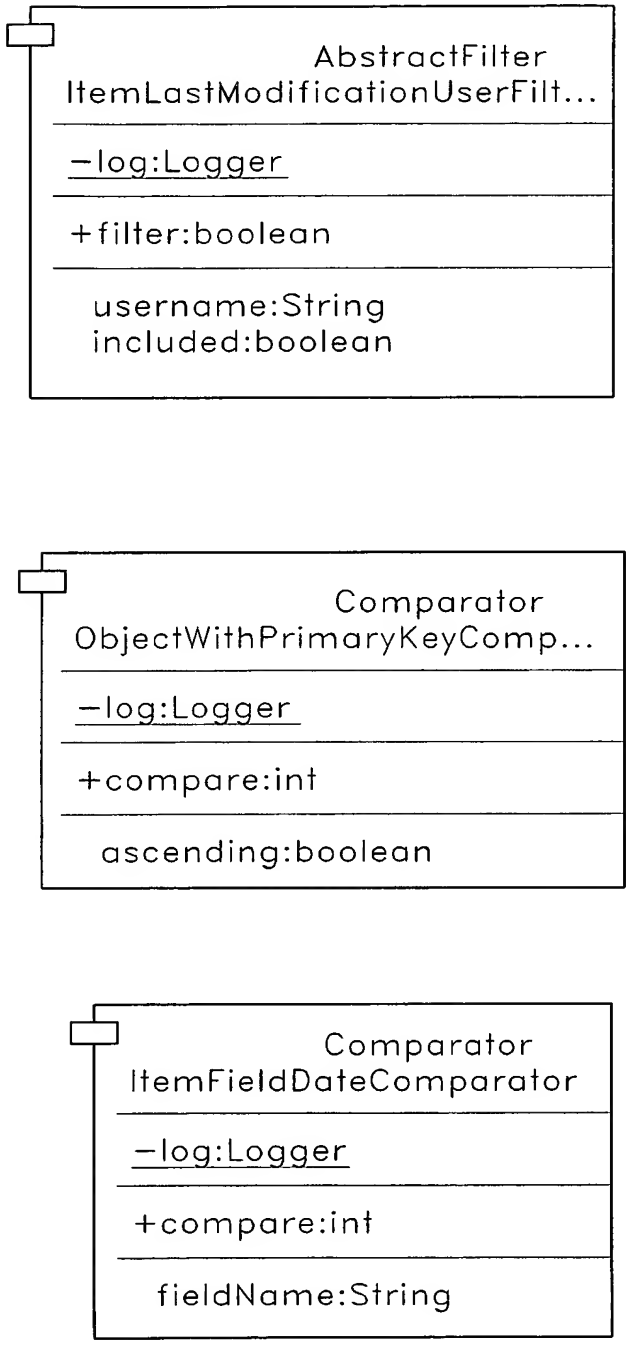


FIG. 5A CONTINUATION

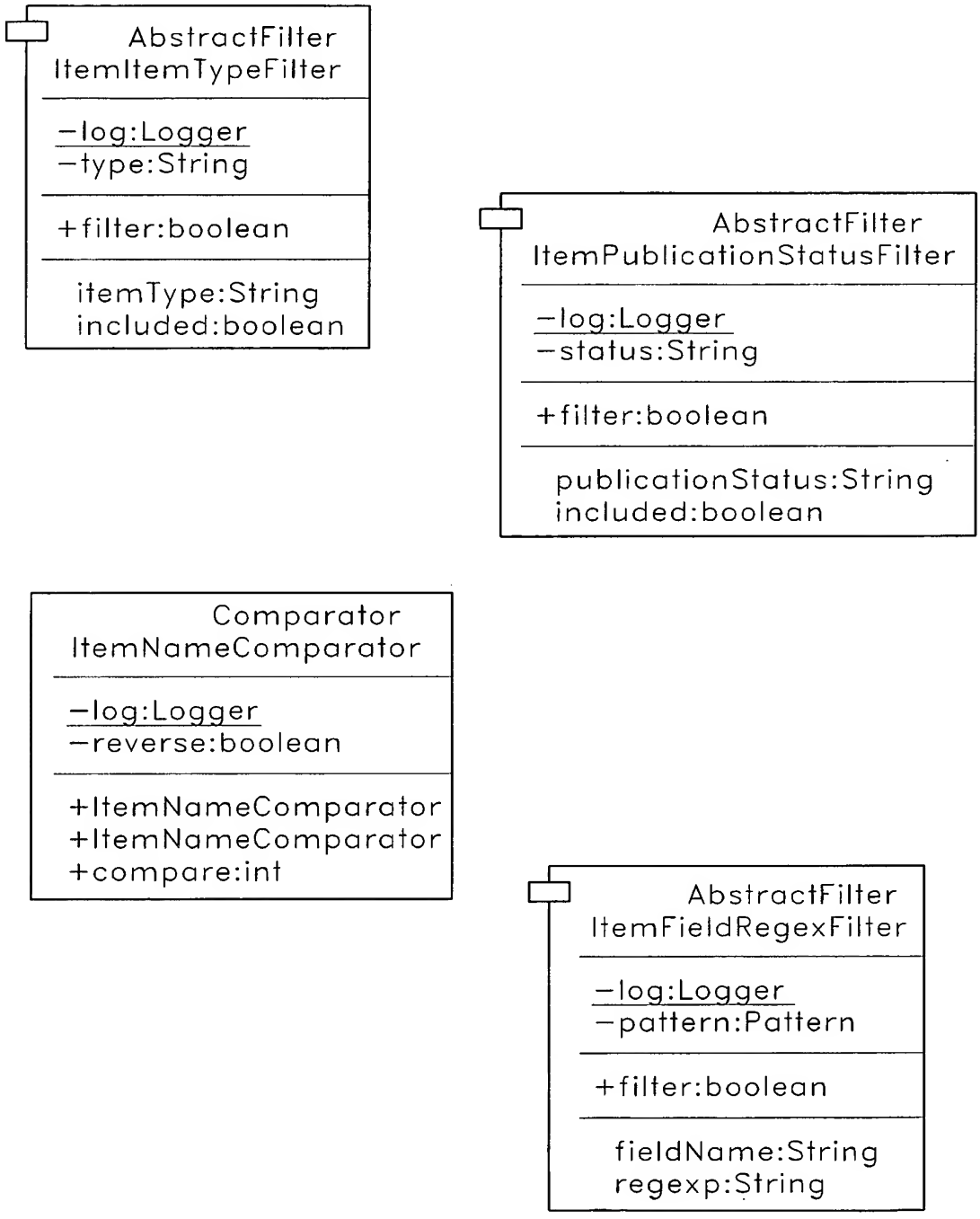


FIG. 5B CONTINUATION

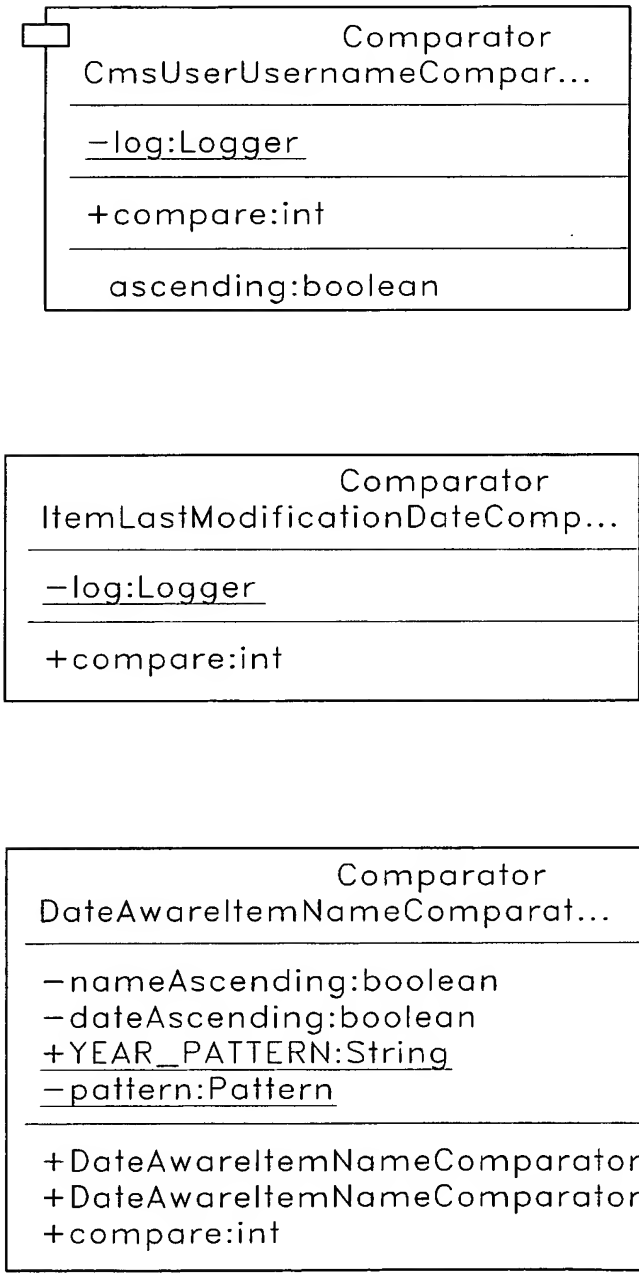


FIG. 5C CONTINUATION

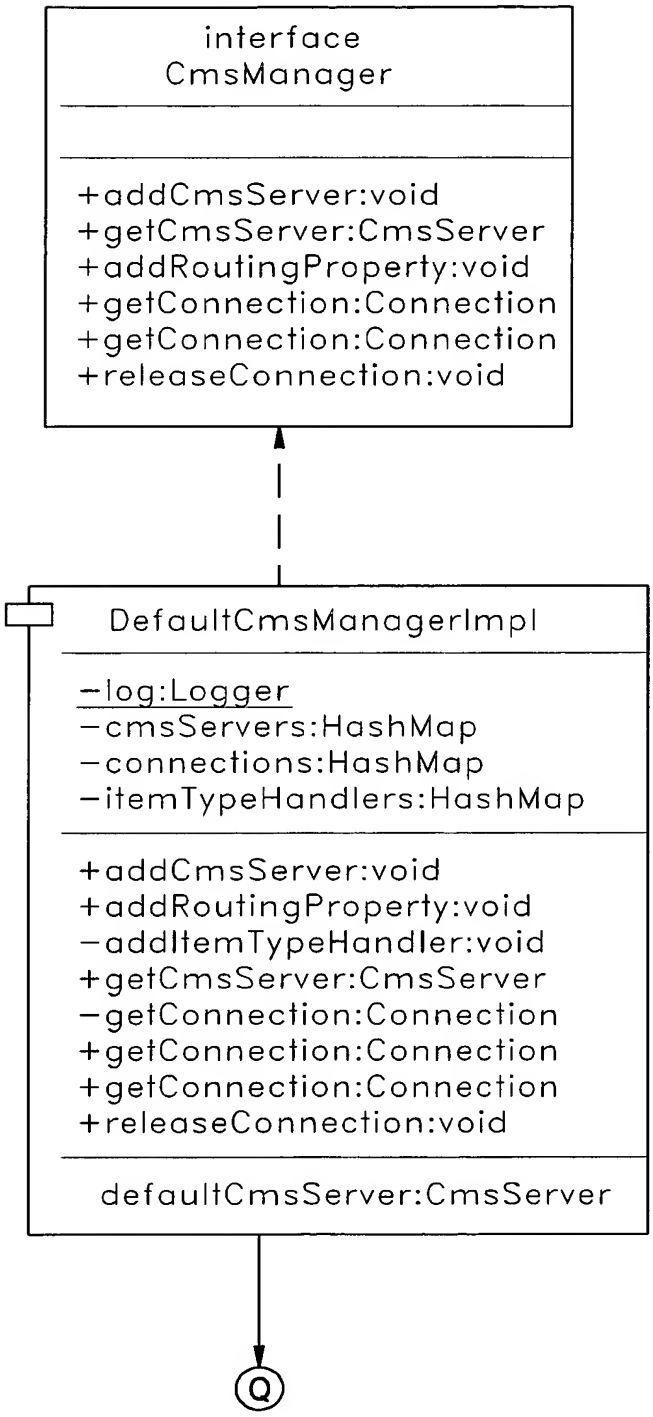

interface
CmsManager
+addCmsServer:void
+getCmsServer:CmsServer
+addRoutingProperty:void
+getConnection:Connection
+getConnection:Connection
+releaseConnection:void
DefaultCmsManagerImpl
-log:Logger
-cmsServers:HashMap
-connections:HashMap
-itemTypeHandlers:HashMap
+addCmsServer:void
+addRoutingProperty:void
-addItemTypeHandler:void
+getCmsServer:CmsServer
-getConnection:Connection
+getConnection:Connection
+getConnection:Connection
+releaseConnection:void
defaultCmsServer:CmsServer
Q

FIG. 6

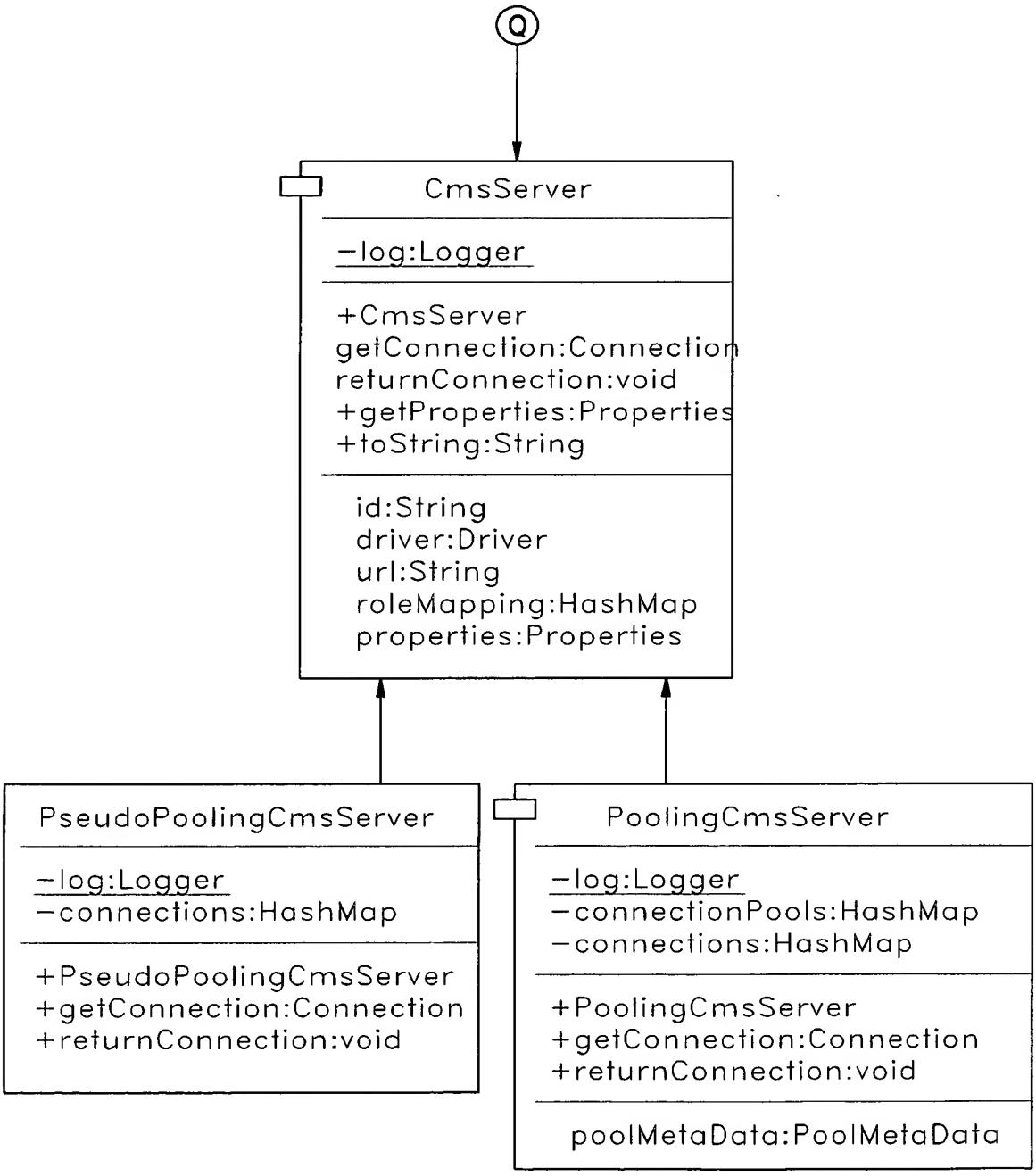


FIG. 6A CONTINUATION

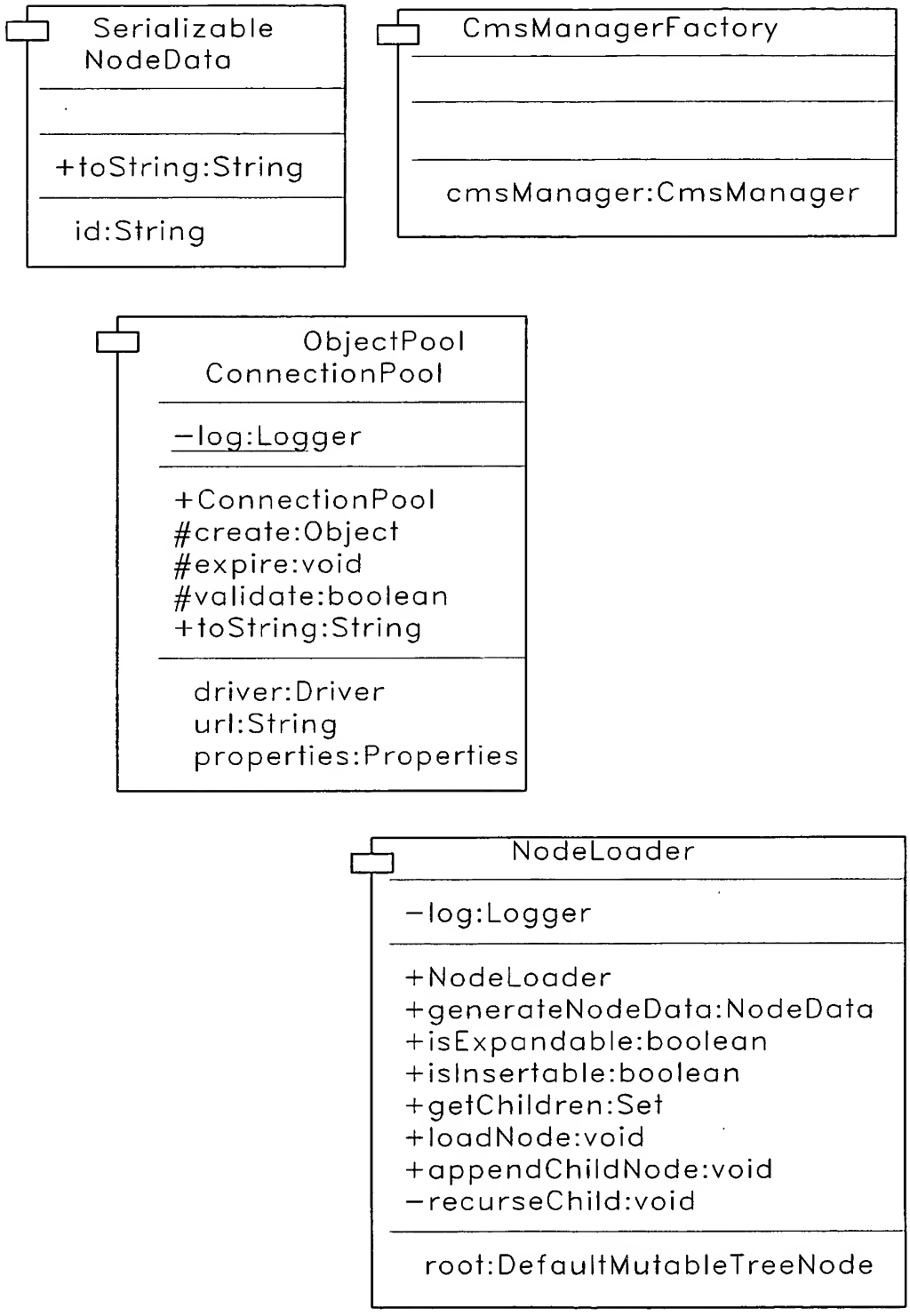


FIG. 6B CONTINUATION

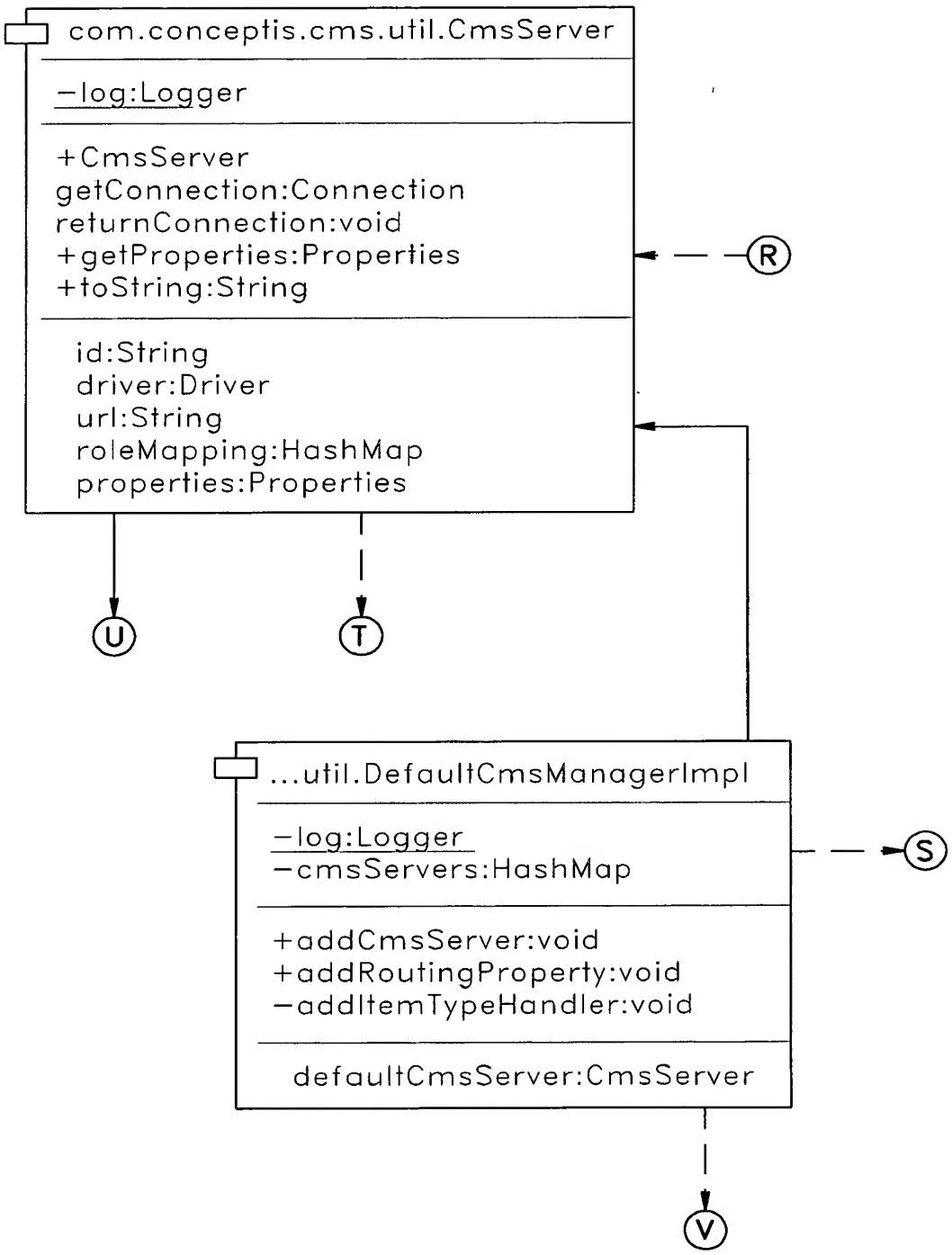

com.conceptis.cms.util.CmsServer
-log:Logger
+CmsServer
getConnection:Connection
returnConnection:void
+getProperties:Properties
+toString:String
id:String
driver:Driver
url:String
roleMapping:HashMap
properties:Properties
R
U
T
...util.DefaultCmsManagerImpl
-log:Logger
-cmsServers:HashMap
+addCmsServer:void
+addRoutingProperty:void
-addItemTypeHandler:void
defaultCmsServer:CmsServer
S
V

FIG. 7

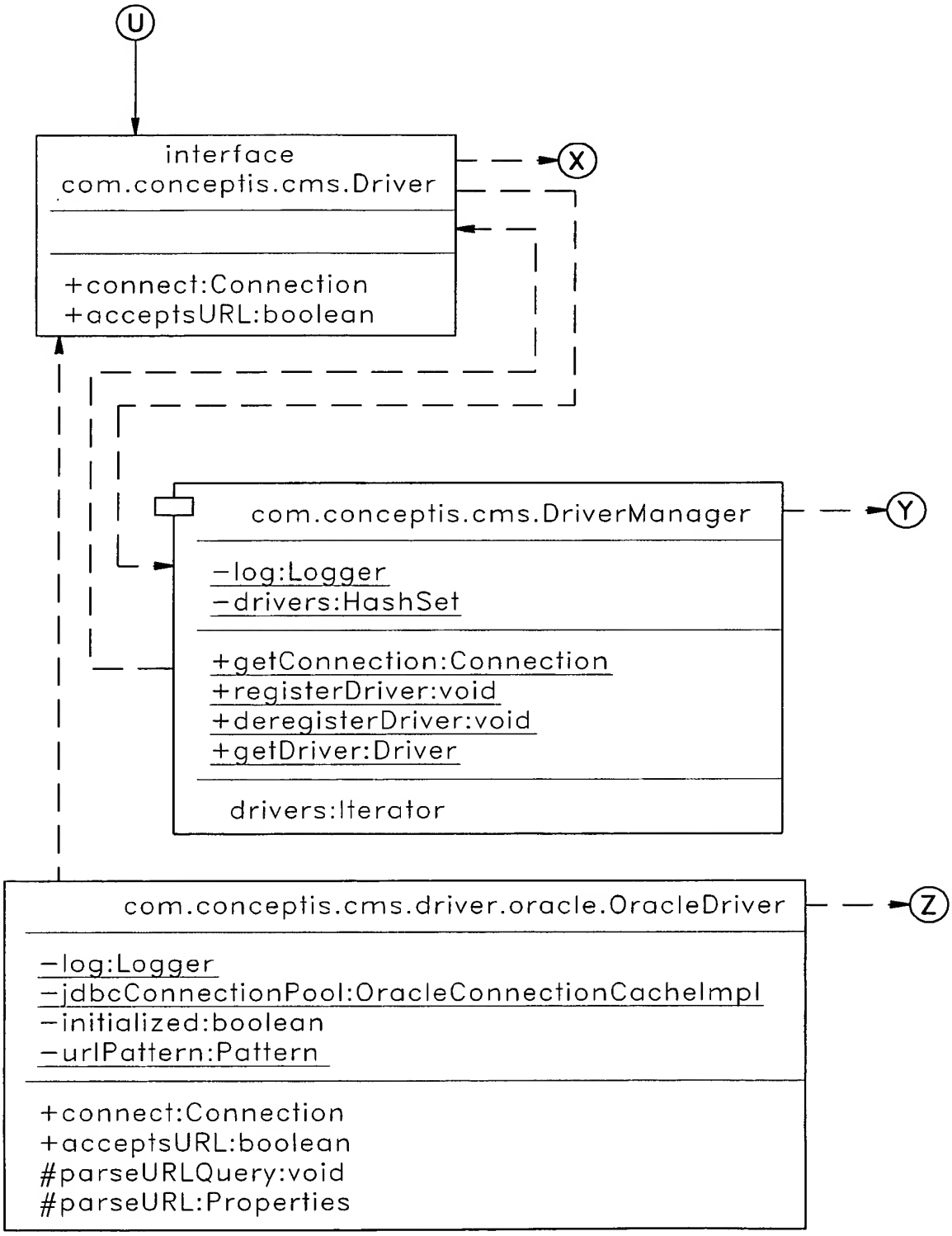


FIG. 7A CONTINUATION

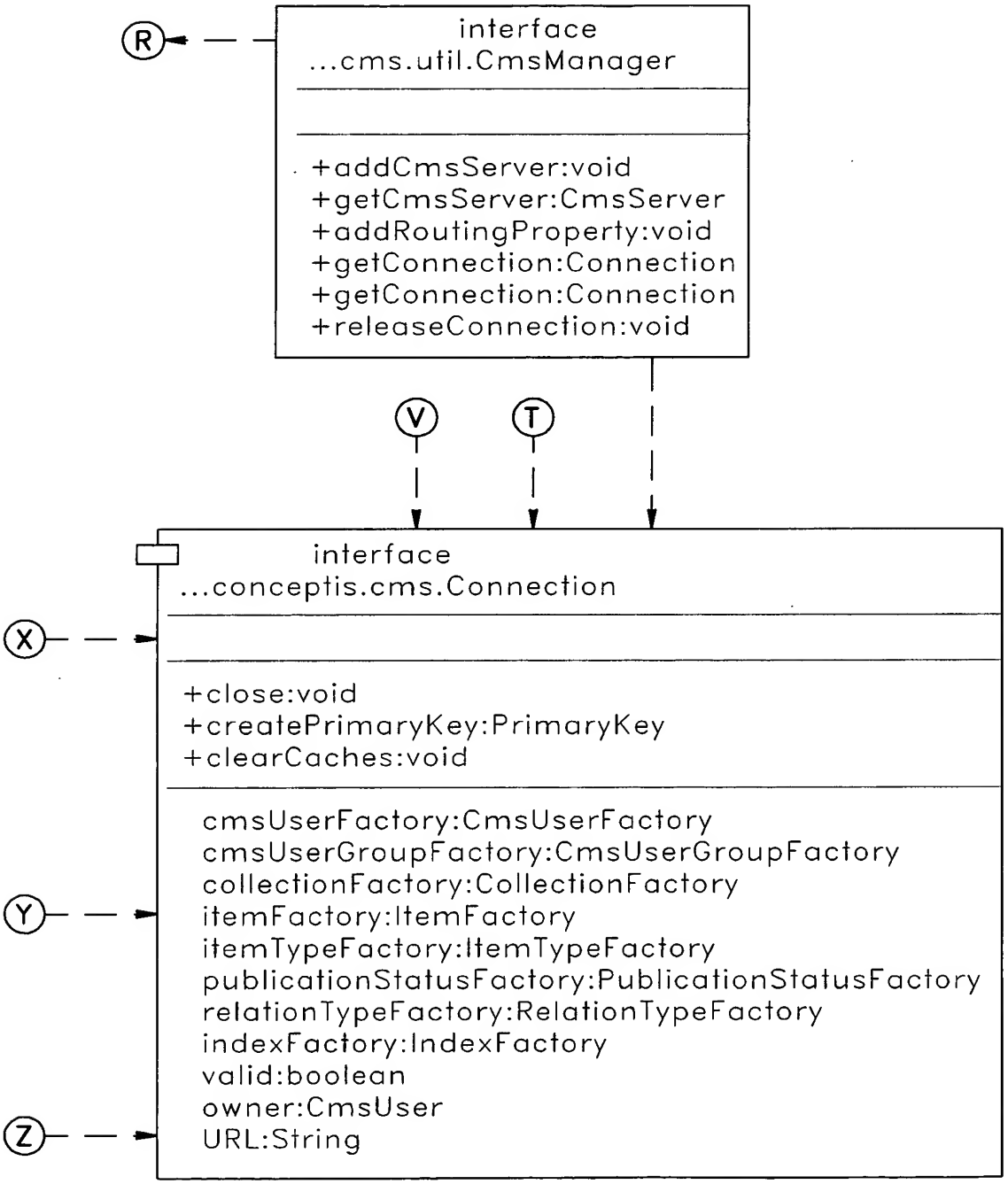
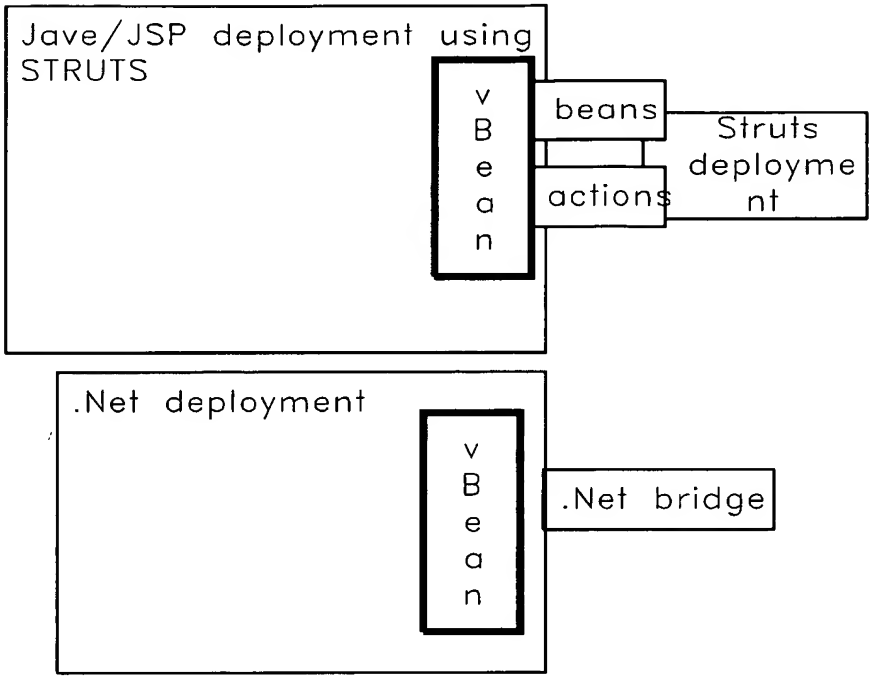


FIG. 7B CONTINUATION



1– service requests content

2 – CMS driver determines how to get the content according to itemtype

3 – CMS instructs content factory to attempt to construct the item, factory will determine whether the content is already in the cache or not

4 – constructed item is available

5 – service processes the requested content

FIG. 8

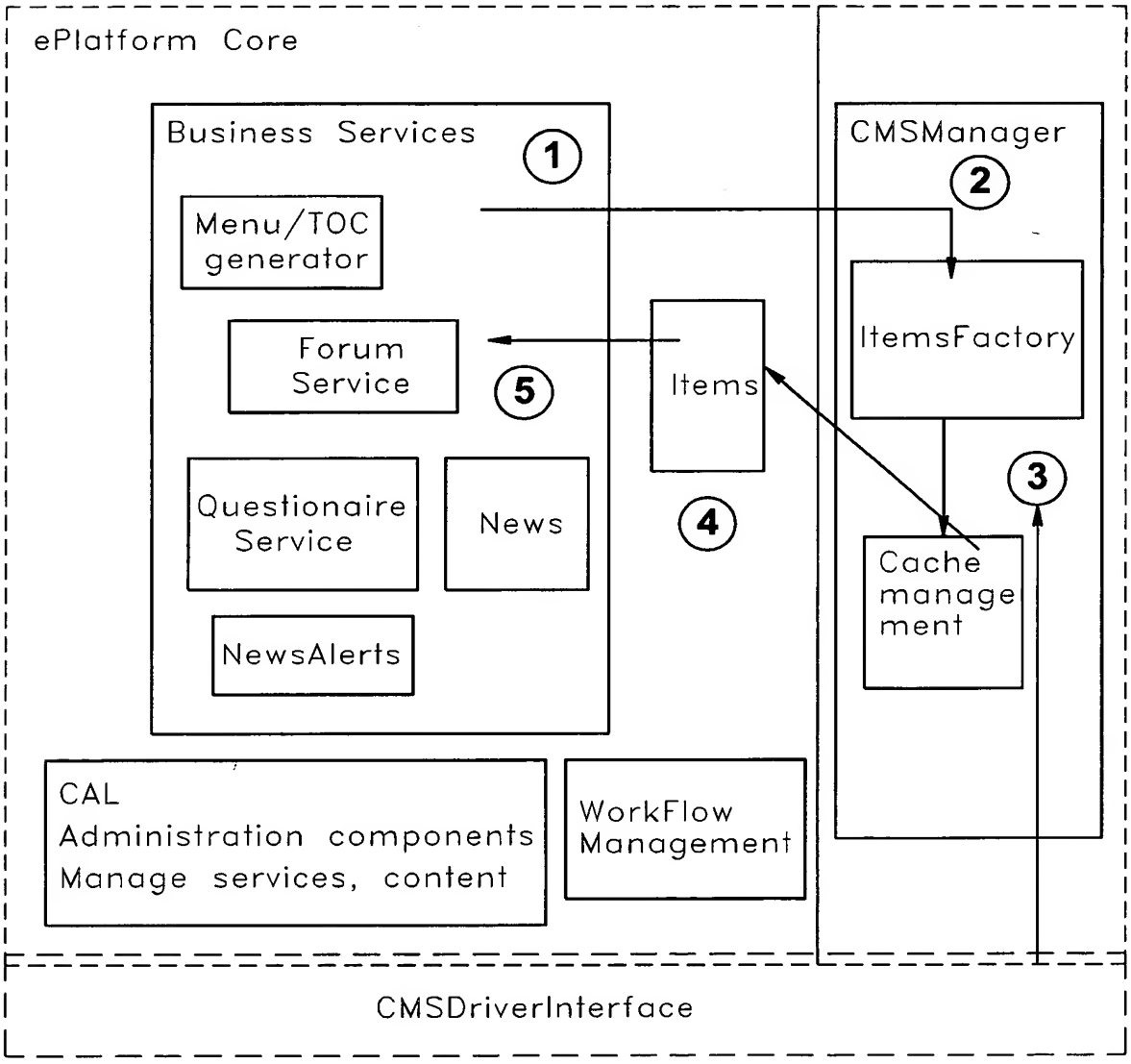


FIG. 8A CONTINUATION

FIG. 8B CONTINUATION